

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A refrigerant composition which comprises a) a refrigerant base oil comprising a complex ester of 2-ethyl-1,3-hexanediol, wherein 2-ethyl-1,3-hexanediol is esterified with a mixture of mono- and dibasic carboxylic acids, the molar ratio between the mono- and dibasic carboxylic acids in the mixture amounting to 50:50 to 99:1 and
b) a fluorinated hydrocarbon, and a polyolester-based lubricant mixed therewith, wherein the polyolester-based lubricant comprises 2-ethyl-1,3-hexanediol esterified with a mixture of mono- and dibasic carboxylic acids, the molar ratio between the mono- and dibasic carboxylic acids in the mixture amounting to 50:50 to 99:1.
2. (Previously Presented) The refrigerant composition according to claim 1, wherein the diol is chemically and technically stable.
3. (Previously Presented) The refrigerant composition according to claim 1, wherein the monobasic carboxylic acid residue of the ester is derived from linear or branched C₄-C₁₈-carboxylic acids, or anhydrides or mixtures thereof.
4. (Previously Presented) The refrigerant composition according to claim 1, wherein the dibasic carboxylic acid residue is derived from oxalic acid, malonic acid, dimethyl malonic acid, succinic acid, glutaric acid, adipic acid, sebacic acid, pimelic acid, suberic acid or azelaic acid, or a cyclic anhydride or an alkyl derivative thereof, or trimellitic anhydride.
5. (Previously Presented) The refrigerant composition according to claim 1, wherein the fluorinated hydrocarbon based refrigerant is hydrofluorocarbon 134, hydrofluorocarbon 134a, hydrofluorocarbon 143, hydrofluorocarbon 143a, hydrofluorocarbon 152 or hydrofluorocarbon 152a or a mixture of hydrofluorocarbons.
6. (Cancelled) A refrigerant base oil comprising a complex ester of 2-ethyl-1,3-hexanediol.

7. (Currently Amended) The refrigerant composition according to claim 47, wherein the cyclic anhydride is succinic anhydride.